

IN THE CLAIMS

Please add the following new claim:

34. (New) A microscope comprising:
two objectives between which a light-transmitting specimen is arranged;
said objectives having at least substantially identical optical characteristics; and
at least one of said two objectives being followed by a phase-conjugating mirror
for reflecting light transmitted through the specimen back into itself exactly with respect to
direction and phase front wherein the reflector is placed in the pupil plane of said at least one
objective; and
a detector for receiving reflected specimen fluorescent radiation from the light
transmitting specimen.

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Sub
or

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